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# ECHINODERMA

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# 5. ECHINODERMA

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## CONTENTS

	PAGE
I. TITLES ... ..	1
II. SUBJECT INDEX ... ..	9
III. SYSTEMATIC INDEX ... ..	10

### I.—TITLES

1.—Amsden, T. W. Stratigraphy and Palaeontology of the Brownsport Formation (Silurian) of Western Tennessee. Peabody Museum of Natural History, Yale University Bull. 5 1949 pp. viii + 138 figs. 1-30 pls. i-xxxiv. [Echinoderma at pp. 68-83 pl. xii].

2.—Arnould-Saget. Contribution à l'étude d'*Austinocrinus solignaci* Valette. Bull. Soc. Sci. nat. Tunisie 2 1949 pp. 41-43 pl. iv.

3.—Augustinsson, K.-B. and Gustafson, T. Cholinesterase in developing sea-urchin eggs. J. cell. comp. Physiol. Philad. 34 1949 pp. 311-321.

4.—Bacci, G. Ricerche sulle zooecenosi bentoniche del Golfo di Napoli. I. La secca di Benda Palummo. Pubbl. Staz. zool. Napoli 20 1947 pp. 158-178 fig. 1.

5.—Bacci, G. Ricerche su *Asterina gibbosa* (Penn.). I.—La migrazione delle gonadi. Arch. zool. Torino 34 1949 pp. 25-29 fig. 1.

6.—Bacci, G. Ricerche su *Asterina gibbosa* (Penn.). II. L'ermafroditismo in una popolazione di Plymouth. Arch. zool. Torino 34 1949 pp. 49-73 pls. i-ii.

7.—Balland, R. Notes échinologiques. I.—Quelques remarques à propos d'un Echinide régulier miocène: *Arbacina*

*monilis* Desmarest, nouveau pour l'Aquitaine. Feuille Nat. Paris N.S. 4 1949 pp. 27-31 fig. 1.

8.—Barron, E. S. G., Flood, V. and Gasvoda, B. Studies on the mechanism of action of ionizing radiations. V. The effect of hydrogen peroxide and of X-ray irradiated sea water on the respiration of sea urchin sperm and eggs. Biol. Bull. Woods Hole 97 1949 pp. 51-56 figs. 1-3.

9.—Barron, E. S. G., Gasvoda, B. and Flood, V. Studies on the mechanism of ionizing radiations. IV. Effect of X-ray irradiation on the respiration of sea urchin sperm. Biol. Bull. Woods Hole 97 1949 pp. 44-50 figs. 1-3.

Bear, R. S. see Marks, M. H.

10.—Bergmann, W. Comparative biochemical studies on the lipids of marine invertebrates, with special reference to the sterols. J. mar. Res. New Haven 8 1949 pp. 137-176.

11.—Bernasconi, I. Distribucion geographica de los Equinoideos Argentinos. Gaea Buenos Aires 8 1947 pp. 97-114 figs. 1-5.

Blake, C. H. see Marks, M. H.

12.—Borei, H. Action of 1, 2-propanediol phosphate on respiration in intact sea-urchin eggs. Ark. Kemi Min. Geol. Stockholm 26B 17 1949 pp. 1-6 1 fig. 1 table.



13.—Borei, H. Independence of post-fertilization respiration in the sea-urchin egg from the level of respiration before fertilization. *Biol. Bull. Woods Hole* **96** 1949 pp. 117–122.

14.—Borei, H. and Lybing, S. Temperature coefficients of respiration in *Psammechinus* eggs. *Biol. Bull. Woods Hole* **96** 1949 pp. 107–116.

15.—Borei, H. and Lybing, S. Oxygen uptake of *Asterias* embryos before hatching. *Nature, London* **163** 1949 pp. 451–452.

Bowen, R. le B., Jr. *see* Clark, A. H.

16.—Bukhalova, V. I. Influence of salinity variation on the zooplankton in the forth of Kovdrk in the White Sea. *Bull. Acad. Sci. Moscow. Biol.* **2** 1949 pp. 218–223.

17.—Burma, B. H. Studies in quantitative palaeontology. II. Multivariate analysis—a new analytical tool for palaeontology and geology. *J. Paleont. Menasha Wis.* **23** 1949 pp. 95–103.

Carlsen, I. *see* Vasseur, E.

Carsjö, A. *see* Lindvall, S.

18.—Caso, M. E. Contribucion al comienzo de los equinodermos litorales de Mexico. *An. Inst. Biol. Mexico* **20** 1949 pp. 341–355 figs. 1–6.

19.—Chambers, E. L. and Chambers, R. Ion exchanges and fertilization in echinoderm eggs. *Amer. Nat.* **83** 1949 pp. 269–284.

Chambers, E. L. *see* Chambers, R.

20.—Chambers, R. and Chambers, E. L. Nuclear and cytoplasmic interrelations in the fertilization of the *Asterias* egg. *Biol. Bull. Woods Hole* **96** 1949 pp. 270–282 figs. 1–3.

Chambers, R. *see* Chambers, E. L.

21.—Chang, F.-Y. Echinoderms of Tsingtao. *Contr. Inst. zool. Peiping* **4** 1948 pp. 33–104 figs. 1–24 pls. i–xi.

22.—Cheney, R. H. Stratification and deformation of *Artacia punctulata* eggs centrifuged in caffeine solutions. *Biol. Bull. Woods Hole* **96** 1949 pp. 70–73.

23.—Cherbonnier, G. Note préliminaire sur quelques Holothuries rapportées par le Navire-École Belge "Mercator." *Bull. Mus. Hist. nat. Paris* (2) **21** 1949 pp. 255–257.

24.—Cherbonnier, G. Holothuries [in] Résultats scientifiques des croisières du Navire-École Belge "Mercator." *Mém. Inst. R. Sci. nat. Belg.* (2) No. **33** 1949 pp. 159–166 pls. i–iii.

Cherbonnier, G. *see* Engel, H.

25.—Clark, A. H. Ophiuroidea of the Hawaiian Islands. *Bull. Bishop Mus. Honolulu* No. **195** 1949 pp. 1–133 figs. 1–22.

26.—Clark, A. H. Some littoral sea-urchins from the Philippines. *J. Wash. Acad. Sci.* **39** 1949 pp. 271–272.

27.—Clark, A. H. Echinoderms from the mid-Atlantic dredged by the Atlantis in the summer of 1948. *J. Wash. Acad. Sci.* **39** 1949 pp. 371–377.

28.—Clark, A. H. On a collection of sea-stars from the Philippine Islands. *Proc. biol. soc. Washington* **62** 1949 pp. 73–77.

29.—Clark, A. H. and Bowen, R. Le B., Jr. Echinoderms of Tarut Bay and vicinity, Saudi Arabia with notes on their occurrence. *Amer. Mus. Nov.* No. **1390** 1949 pp. 1–20 figs. 1–2.

30.—Collignon, M. *Tessieria*, nouveau genre d'Echinides du Maestrichtien du Sénégal (*Tessieria senegalensis*, sp. nov.). *Bull. Soc. géol. Fr.* (5) **19** 1949 pp. 263–268 figs. 1–2, pl. ixa figs. 1–5.

31.—Cooke, C. W. *Pygurostoma pasionensis*, a Cretaceous echinoid from Guatemala. *Amer. Mus. Nov.* No. **1422** 1949 pp. 1–3 fig. 1.

32.—Cooke, C. W. Two Cretaceous Echinoids from Peru. *J. Paleont. Menasha Wis.* **23** 1949 pp. 84–86 pl. xxii.

33.—Costello, D. P. Growth and development. *Survey of Biol. Progress N.Y.* **1** 1949 pp. 115–153.

34.—Crane, R. K. and Keltch, A. K. Dinitrocresol and phosphate stimulation of the oxygen consumption of a cell-free oxidative system obtained from sea urchin eggs. *J. gen. Physiol. Baltimore* **32** 1949 pp. 503–509 fig. 1.

35.—Dan, J. C. and Dan, K. Early development of *Comanthus japonicus*. *Japan J. zool.* **9** 1941 pp. 565–574 pls. xv–xvii.

Dan, J. C. *see* Dan, K.

36.—Dan, K. and Dan, J. C. Spawning habit of the Crinoid, *Comanthus japonicus*. Japan. J. Zool. **9** 1941 pp. 555–564 figs. 1–3 pl. xiv.

Dan, K. see Dan, J. C.

37.—Dawbin, W. H. Auto-evisceration and the regeneration of viscera in the holothurian *Stichopus mollis* (Hutton). Trans. Proc. Roy. Soc. N.Z. **77** 1949 pp. 497–523 figs. 1–9.

38.—Dawbin, W. H. Regeneration of the alimentary canal of *Stichopus mollis* (Hutton) across a mesenteric adhesion. Trans. Proc. Roy. Soc. N.Z. **77** 1949 pp. 524–529 figs. 1–2.

39.—Deflandre-Rigaud, M. Révision du Manipule *Synaptites sclérites* d'Holothurides fossiles. Bull. Inst. océanogr. Monaco No. 946 1949 pp. 1–11 figs. 1–26.

40.—Deichmann, E. Shallow water holothurians from Cabo de Hornos and adjacent waters. An. Mus. Argent. B. Aires **42** 1946 pp. 325–351 figs. 1–5.

41.—Deichmann, E. A new species of *Thyone* s.s., from the Gulf of Mexico. *Thyone mexicana* spec. nov. Occ. Pap. Mar. Lab. Baton Rouge La. No. 4 1946 pp. 1–4 fig. 1.

42.—Demanet, F. Contribution à l'étude de la microfaune marine du Westphalien de la Campine. Bull. Inst. R. Sci. nat. Belg. **25** 37 1949 pp. 1–16 pls. i–ii.

43.—Dieuzeide, R. Etude d'un fond de pêche d'Algérie : la Gravelle de Castiglione. Bull. Sta. Aquicult. Alger N.S. **1** 1940 pp. 31–57 figs. 1–2.

44.—Durham, J. W. *Dendroaster elsmereensis* Durham, n. sp. Amer. J. Sci. New Haven **247** 1949 pp. 49–62 pls. i–ii figs. 1–2.

45.—Duval, A. G. Application des rayons X à l'étude des structures internes des Echinides actuels et fossiles et en particulier, à titre d'exemple, à quelques espèces du genre *Scutella* Lamarck 1816. Bull. Mus. Hist. nat. Paris (2) **21** 1949 pp. 399–407 figs. 1–6.

46.—Eckert, F. Färbung der Kernelemente bei der Seeigel-Eientwicklung. Mikrokosmos Stuttgart **38** 1949 pp. 154–156 figs. 1–5.

47.—Edmonds, S. J. The commoner species of animals and their distribution on an intertidal platform at

Pennington Bay, Kangaroo Island, South Australia. Trans. roy. Soc. S. Austr. **72** 1948 pp. 167–177 pls. xvi–xvii.

48.—Engel, H., John, D. D. and Cherbonnier, G. The genus *Mithrodia* Gray, 1840. Zool. Verh. Leiden No. 2 1948 pp. 1–39 figs. 1–12.

49.—Fell, H. B. A key to the littoral Asterooids of New Zealand. Tuatara, Wellington N.Z. **1** 1 1947 pp. 20–23 pl. ii.

50.—Fell, H. B. A Key to the Sea Urchins of New Zealand. Tuatara, Wellington N.Z. **1** 3 1948 pp. 6–9 pls. i–ii.

51.—Fell, H. B. An echinoid from the Tertiary (Janjukian) of South Australia, *Brochopleurus australiae* sp. nov. Mem. nat. Mus. Melbourne **16** 1949 pp. 17–19 pl. i.

52.—Fell, H. B. The occurrence of Australian Echinoids in New Zealand waters. Rec. Auckland Inst. Mus. **3** 1949 pp. 343–346.

53.—Fell, H. B. The constitution and relations of the New Zealand Echinoderm Fauna. Trans. Roy. Soc. N.Z. **77** part 5 1949 pp. 208–212.

54.—Ferguson, A. H. Experiments on the tolerance of several marine invertebrates to reduced salinity. Proc. Louisiana Acad. Sci. **11** 1948 pp. 16–17.

Flood, V. see Barron, E. S. G.

Gasvoda, B. see Barron, E. S. G.

55.—George, T. N. Evolution in fossil communities. Proc. phil. Soc. Glasgow **73** 1948 pp. 23–42.

56.—Gillet, S. Les Invertébrés marins de l'Oligocène de Basse-Alsace. Bull. Soc. géol. Fr. **5** 19 1949 pp. 51–74 pls. iv–v.

Gordon, M. see Villee, C. A.

Gustafson, T. see Augustinsson, K.-B.

Gustafson, T. see Wicklund, E.

57.—Gustafson, T. and Sävchen, R. Studies on the determination of the oral side of the sea-urchin egg. I. The effect of some detergents on the development. Ark. Zool. Stockholm **42A** 10 1949 pp. 1–6 figs. 1–2.



Harting, J. *see* Marshak, A.

58.—Harvey, E. B. The growth and metamorphosis of the *Arbacia punctulata* pluteus, and late development of the white halves of centrifuged eggs. *Biol. Bull. Woods Hole* **97** 1949 pp. 287–299 pls. i–vi.

59.—Hayasaka, I. Notes on 'some fossil Echinoids of Taiwan. IV. *Acta Geol. Taiwanica* **2** 1948 pp. 85–124 pls. i–v.

60.—Hayasaka, I. Notes on the Echinoids of Taiwan. *Bull. Oceanogr. Inst. Taiwan* No. 4 1948 pp. 1–35 pls. i–vi.

61.—Hayasaka, I. On some starfishes from Taiwan. *Bull. Oceanogr. Inst. Taiwan* No. 5 1949 pp. 11–19 pls. i–iii.

62.—Hayasaka, I. *Sinaechinus kawaguchii* gen. et sp. nov., a new Spatangid Echinoid from the Bay of Tonkin. *Bull. Oceanogr. Inst. Taiwan* No. 5 1949 pp. 20–22 pl. iv.

63.—Hayasaka, I. and Morishita, P. Fossil species of *Clypeaster* from Taiwan [with appendix] A fossil *Clypeaster* from Tokuno-shima, Kago-shima Prefecture, Japan. *Acta Geol. Taiwanica* **1** 1947 pp. 39–52 pls. i–v.

64.—Hayasaka, I. and Morishita, A. Notes on some fossil echinoids of Taiwan. II & III. *Acta Geol. Taiwanica* **1** 1947 pp. 93–108 pls. viii–ix, pp. 111–128 pls. x–xvi.

65.—Hayashi, R. The fauna of Akkeshi Bay. XVI. Asteroidea. *J. Fac. Sci. Hokkaido Univ. zool.* **9** 1947 pp. 277–280 fig. 1.

66.—Holter, H. Problems of enzyme localization and development. *Pubb. Staz. zool. Napoli* **21** Suppl. 1949 pp. 60–76.

67.—Hörstadius, S. Experimental researches on the developmental physiology of the sea urchin. *Pubb. Staz. zool. Napoli* **21** Suppl. 1949 pp. 131–172 figs. 1–25.

68.—Hultin, T. On the question of Sperm-antifertilizin. *Pubb. Staz. zool. Napoli* **21** 1948 pp. 153–163.

69.—Hultin, T. The effect of calcium on respiration and acid formation in homogenates of sea-urchin eggs. *Ark. Kemi Min. Geol. Stockholm* **26A** 27 1949 pp. 1–10 4 figs.

70.—Ikeda, H. Functions of the lunules of *Astriclypeus* as observed in the righting movement (Echinoidea). *Annot. zool. jap.* **20** 1941 pp. 79–82 pl. v.

71.—Ikeda, H. Preliminary report on *Chorocidaris micca* gen. et sp. nov., from the Ryūkyū Islands (Echinoidea, Cidaridae). *Annot. zool. jap.* **20** 1941 pp. 85–86 pl. vi.

72.—Immers, J. On the heparin-like effect of fertilizin from sea-urchin eggs on blood coagulation and the modifying action of basic proteins and cephalin on the effect. *Ark. Zool. Stockholm* **42A** 6 1949 pp. 1–9 figs. 1–3.

Immers, J. *see* Vasseur, E.

73.—Immers, J. and Vasseur, E. Comparative studies on the coagulation process with Heparin and Sea-Urchin fertilizin. *Experientia, Basel* **5** 1949 pp. 124–125.

74.—Indelli, E. Contributo alla conoscenza della fauna bentonica costiera del Golfo di Napoli. *Acta pont. Acad. Scient.* **10** 1946 pp. 207–222.

Jakovlev, N. *see* Yakovlev, N. N.

John, D. D. *see* Engel, H.

Kelch, A. K. *see* Crane, R. K.

75.—Kinosita, H. Conduction of impulse in superficial nervous system of sea urchin. *Japan. J. Zool.* **9** 1941 pp. 221–232.

76.—Kongiel, R. On the variability of *Echinocorys* from the Danian deposits of Denmark, Sweden and Poland. *Wiadomości Muzeum Liemi (Polish Geol. Mag.)* **4** 1949 pp. 221–238 21 figs. [English summary at pp. 238–240].

77.—Krauss, M. A mucin clot reaction with sea-urchin fertilizin. *Biol. Bull. Woods Hole* **96** 1949 pp. 74–89.

Kuhl, G. *see* Kuhl, W.

78.—Kuhl, W. and Kuhl, G. Neue Ergebnisse zur Cytodynamik der Befruchtung und Furchung des Eies von *Psammechinus miliaris* Gmel. *Zool. Jahrb. Gena (Anat.)* **70** 1949 pp. 1–59 figs. 1–14.

79.—Kuznetsov, V. V. Populations of some mass species of marine invertebrates of East Murman. *Zool. J. Moscow* **26** 1947 pp. 109–122.

- Leonard, E. *see* Villee, C. A.
- 80.—Liebman, E. Trephocytes in *Arbacia punctulata* and their role in ovular growth and in respiration. *Nature*, London **164** 1949 p. 459 fig.
- 81.—Lindahl, P. E. and Lundin, J. Thermal activation of the Dehydrogenase Systems of the unfertilized and fertilized eggs of the sea-urchin, *Paracentrotus lividus*. *Nature*, London **163** 1949 pp. 326–327.
- 82.—Lindberg, O. On the turnover of adenosine triphosphate in the sea-urchin egg. *Ark. Kemi Min. Geol. Stockholm* **26B** 13 1949 pp. 1–4 1 fig.
- 83.—Lindvall, S. and Carsjö, A. Cholesterol during early sea-urchin egg development. *Ark. Kemi Min. Geol. Stockholm* **26B** 12 1949 pp. 1–3.
- Lowens, M. *see* Villee, C. A.
- 84.—Lundblad, G. Proteolytic activity in eggs and sperms from sea-urchins. *Nature*, London **163** 1949 p. 643.
- Lundin, J. *see* Lindahl, P. E.
- Lybing, S. *see* Borei, H.
- 85.—Maccagno, A. M. Illustrazione degli echinidi giurassici della Somalia. *Mem. Accad. Lincei* (8) **1** IIa 1947 pp. 99–136 text-figs. 1–4, pl. i.
- 86.—MacGinitie, G. E. The feeding of Ophiurans. *J. Ent. Zool. Claremont Cal.* **41** 1949 pp. 27–29 figs. 1–2.
- 87.—MacLennan, R. M. A Starfish from the Glass Sand of Loch Aline. *Geol. Mag. London* **86** 1949 pp. 94–96 pl. ii.
- 88.—Makino, S. and Niiyama, H. A study of chromosomes in Echinoderms. *J. Fac. Sci. Hokkaido Univ. Zool.* **9** 1947 pp. 225–232 figs. 1–17.
- 89.—Marks, M. H., Bear, R. S. and Blake, C. H. X-ray diffraction evidence of collagen-type protein fibers in the Echinodermata, Coelenterata and Porifera. *J. exp. Zool. Philadelphia* **111** 1949 pp. 55–78 figs. 1–2.
- 90.—Marshak, A. Recovery from ultra-violet light-induced delay in cleavage of *Arbacia* eggs by irradiation with visible light. *Biol. Bull. Woods Hole* **97** 1949 pp. 315–322.
- 91.—Marshak, A. & Harting, J. Inhibition of cleavage and P<sup>32</sup> uptake in *Arbacia* by d-usnic acid. *J. cell. comp. Physiol. Philad.* **31** 1948 pp. 321–325 figs. 1–2.
- 92.—Mazia, D. The distribution of Desoxyribonuclease in the developing embryo (*Arbacia punctulata*). *J. cell. comp. Physiol. Philad.* **34** 1949 pp. 17–32.
- 93.—Miyadi, D. Ecological survey of the benthos of the Ago-wan. *Annot. zool. jap.* **20** 1941 pp. 169–180.
- 94.—Monné, L. On the induced formation of chromosome-like structures within the cytoplasm of mature sea urchin eggs. *Ark. Zool. Stockholm* **42A** 4 1949 pp. 1–11 pl.
- Monroy, A. *see* Ruffo, A.
- 95.—Monroy, A. and Oddo, A. M. *Ricerche sulla fisiologia della fecondazione. I. Natura dello strato corticale dell'uovo vergine di riccio di mare.* *Pubb. Staz. zool. Napoli* **20** 1946 pp. 46–60 figs. 1–2.
- 96.—Moore, A. R. The relation of ions to the appearance and persistence of fertilization and hyaline membranes in the eggs of the sea urchin. *Amer. Nat.* **83** 1949 pp. 233–247 20 figs.
- Morishita, A. *see* Hayasaka, I.
- 97.—Mortensen, T. New Echinoidea (Cassiduloida, Clypeastroida). Preliminary notice. *Vidensk. Medd. Naturh. Foren. Køjb.* **111** 1949 pp. 67–72. [The genera, species and varieties described as new, had already been described by Mortensen Monograph Echinoidea IV. 1 and 2 1948.]
- 98.—Mullerleid, F. K. G. Rectificación de la estratigrafía del Mesozoico en el Noroeste de América Central (del Istmo de Tehuantepec a Nicaragua). *Ciencia Mexico* **9** 1948 pp. 219–224.
- 99.—Mullins, L. J. Apyrase distribution in sea-urchin eggs. *Experientia*, Basel **5** 1949 pp. 478–479.
- 100.—Murakami, S. On the development of the calcareous plates of an Ophiuran *Amphipholis japonica* Matsumoto. *Japan. J. Zool.* **9** 1940 pp. 19–33 figs. 1–13.



101.—Murakami, S. On the development of the hard parts of a viviparous ophiuran, *Stegophiura sculpta* (Duncan). Annot. zool. jap. 20 1941 pp. 67-78 figs. 1-9.

Nicola, M. de, see Tan, C. C.

Nijjama, H. see Makino, S.

102.—Nisiyama, S. On the Japanese species of *Echinarachnius*. Jubilee Publ. Commem. Prof. H. Yabe 2 1940-1 pp. 803-862 figs. 1-65 pls. xliii-xlv.

Oddo, A. M. see Monroy, A.

103.—Onoda, K. Notes on the development of some Japanese Echinoids. Report IV. Hybridization experiments with some Japanese Echinoids. Japan. J. Zool. 10 1943 pp. 407-426 figs. 1-30.

104.—Otuka, Y. Neogene fossils of the Ihara District, Sizuoka Prefecture, Japan. J. Fac. Sci. Imp. Univ. Tokyo Geol. 5 1938 pp. 1-19 pls. i-ii.

105.—Pasteels, J. Sur quelques particularities de l'activation de l'oeuf d'oursin (*Psammechinus miliaris*). Bull. Acad. R. Belg. Cl. Sci. (5) 27 1941 pp. 123-129.

106.—Powell, A. W. B. Biological primary types in the Auckland Museum. No. 3. Zoological (Supplement). Rec. Auckland Inst. Mus. 3 1949 p. 403-409.

107.—Reed, E. A. Ultraviolet light and permeability of sea urchin eggs. J. cell. comp. Physiol. Philad. 31 1948 pp. 261-280.

108.—Regnéll, G. On the position of Palaeontology and Historical Geology in Sweden before 1800. Ark. Min. Geol. Stockholm 1 1 1949 pp. 1-64 figs. 1-21.

109.—Reverberi, G. Ancora sull'ermafroditismo nei ricci di mare. Boll. zool. Torino 14 N. 4-6 1947 pp. 65-73 figs. 1-4.

Rich, A. see Villee, C. A.

110.—Robertson, J. D. Ionic regulation in some marine invertebrates. J. exp. Biol. Cambridge 26 1949 pp. 182-200.

111.—Rothschild, Lord. The physiology of sea urchin spermatozoa. Lack of movement in semen. J. exp. Biol. Cambridge 25 1949 pp. 344-352 figs. 1-2.

112.—Rothschild, Lord. The physiology of sea urchin spermatozoa. Senescence and the dilution effect. J. exp. Biol. Cambridge 25 1949 pp. 353-368 figs. 1-5.

113.—Rothschild, Lord. The metabolism of fertilized and unfertilized sea-urchin eggs. The action of light and carbon monoxide. J. exp. Biol. Cambridge 26 1949 pp. 100-111 fig. 1.

114.—Rothschild, Lord. The fertilization reaction in the sea-urchin egg. A note on diffusion considerations. J. exp. Biol. Cambridge 26 1949 pp. 177-181 figs. 1-2.

115.—Rothschild, Lord and Swann, M. M. The fertilization reaction in the sea-urchin egg. A propagated response to sperm attachment. J. exp. Biol. Cambridge 26 1949 pp. 164-176 figs. 1-3 pls. iv-vi.

116.—Ruffo, A. and Monroy, A. Ricerche sulla fisiologia della fecondazione. Nota II: presenza nello sperma di riccio di mare di un fattore enzimatico fluidificante. Pubbl. Staz. zool. Napoli 20 1947 pp. 253-269 figs. 1-2.

117.—Rulon, O. The experimental modification of developmental patterns in *Arbacia* with malonic acid. Physiol. Zool. Chicago 21 1948 pp. 100-105 figs. 1-12.

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121.—Rybak, B. Agglutination spermatique de type fertilisine et agglutination spermatique de type gangue. C.R. Acad. Sci. Paris 229 1949 pp. 598-600.

Sävghagen, R. see Gustafson, T.



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## II.—SUBJECT INDEX

GENERAL LITERATURE  
AND HISTORY

**History.**—Palaeontology in Sweden before 1800, REGNÉLL 108.

**Museums ; Collections.**—Auckland Museum, POWELL 106.

## STRUCTURE

**Skeletal Anatomy.**—DUVAL 45 ; Adoral plates, *Echinarachnius*, NISIYAMA 102 ; Palaeozoic Crinoidea, WAN-NER 153 ; YAKOVLEV 159.

**Nervous System.**—*Calceolispongia*, TEICHERT 133 pp. 13–18.

**Reproductive System.**—*Asterina*, BACCI 6.

**Teratology.**—*Henricia*, HAYASHI 65.

**Laboratory Technique.**—Use of X-rays, DUVAL 45.

## PHYSIOLOGY

**Respiration.**—BOREI & LYBING 14.

**Nervous System.**—KINOSITA 75.

**Chemical Constituents.**—BERGMANN 10 ; MARKS, BEAR & BLAKE 88 ; MULLINS 99 ; WHITELEY 155.

**Autotomy and Regeneration.**—*Stichopus*, DAWBIN 37–38 ; TARTARIN 132 ; *Marthasterias*, WILSON 157.

**Experimental.**—AUGUSTINSSON & GUSTAFSON 3 ; BARRON, FLOOD & GASVODA 8, 9 ; BOREI 12, 13 ; BOREI & LYBING 14, 15 ; CHAMBERS & CHAMBERS 19 ; CHENEY 22 ; CRANE & KELTCH 34 ; FERGUSON 54 ; HÖRSTADIUS 67 ; HULTIN 69 ; IMMERS 72 ; IMMERS & VASSEUR 73 ; KINOSITA 75 ; KRÁUSS 77 ; LIEBMAN 80 ; LINDAHL & LUNDIN 81 ; LINDBERG 82 ; LINDVALL & CARSJÖ 83 ; LUNDBLAD 84 ; MARSHAK & HARTING 91 ; MAZIA 92 ; MONNÉ 94 ; MONROY & ODDO 95 ; MOORE 96 ; REED 107 ; ROBERTSON 110 ; ROTHSCHILD 111–114 ; ROTHSCHILD & SWANN 115 ; RUFFO & MONROY 116 ; RYBAK 121 ; SPIKES 124–125 ; TAN & NICOLA 131 ; TINACCI 134 ; TYLER 141 ; URBANI 143 ; VASSEUR 144–145 ; VASSEUR & CARLSEN 146 ; VASSEUR & IMMERS 147 ; VENDRELY & VENDRELY 150 ; VILLEE, LOWENS, GORDON, LEONARD & RICH 152 ; ZEUTHEN 161.

## REPRODUCTION AND SEX

**Reproduction.**—*Asterias rubens*, VEVERS 151.

**Parthenogenesis.**—DAN & DAN 35.

**Hermaphroditism.**—*Asterina gibbosa*, BACCI 6 ; REVERBERI 109.

## DEVELOPMENT

**Fertilisation and Segmentation.**—DAN & DAN 35 ; *Arbacia punctulata*, HARVEY 58.

**Larval Stages.**—*Arbacia punctulata*, HARVEY 58 ; *Amphipholis japonica*, MURAKAMI 100 ; *Stegophiura*, MURAKAMI 101 ; *Bipinnaria*, TOKIOKA 135.

**Post-Larval Stages.**—*Asterina gibbosa*, BACCI 5 ; *Arbacia punctulata*, HARVEY 58 ; *Stegophiura*, MURAKAMI 101.

**Experimental Embryology.**—CHAMBERS & CHAMBERS 20 ; COSTELLO 33 ; DAN & DAN 35 ; ECKERT 46 ; GUSTAFSON & SÄVHAGEN 57 ; HARVEY 58 ; HOLTER 66 ; HÖRSTADIUS 67 ; HULTIN 68 ; KÜHL & KÜHL 78 ; MARSHAK 90 ; ONODA 103 ; PASTEELS 105 ; RULON 117–118 ; RUNNSTRÖM 119–120 ; WICKLUND & GUSTAFSON 156.

## EVOLUTION AND GENETICS

**General Works ; Theories.**—GEORGE 55 ; statistical study of variation, BURMA 17.

**Phylogeny.**—Danian *Echinocorys*, KONGIEL 76 ; *Echinarachnius* and related genera, NISIYAMA 102 ; relation of *Delocrinus* to *Paradelocrinus*, STRIMPLE 128.

**Variation.**—*Pentremites godoni*, BURMA 17 ; TORTONESE 137.

**Degeneration.**—TORTONESE 139.

## ECOLOGY AND HABITS

**Communities.**—BACCI 4 ; EDMONDS 47 ; KUZNETZOV 79 ; MIYADI 93 ; VATOVA 148–149 ; VEVERS 151.

**Effects of Environment.**—Salinity, White Sea, BUKHALOVA 16.

**Feeding Habits.**—Ophiuroidea, MACGINITIE 86.

**Spawning Habits.**—DAN & DAN 36.



**Burrowing Habits.**—Trails made by *Arachnoides placenta* in moving to bury themselves under a thin layer of sand, HAYASAKA 60 p. 6 pl. iii; use of lunules of *Astriclypeus* in burrowing, IKEDA 70.

## DISTRIBUTION

### GEOGRAPHICAL

**Arctic.**—BUKHALOVA 16; KUZNETZOV 79.

**North Atlantic.**—CLARK 27; GILLET 56; VEVERS 151.

**Mediterranean.**—BACCI 4; DIEUZEIDE 43; INDELLI 74; TORTONESE 136, 140; VATOVA 148-149.

**North Pacific.**—CHANG 21; HAYASAKA 60-61; HAYASHI 65; IKEDA 71; MIYADI 93; TOKIOKA 135.

**Tropical Atlantic.**—CASO 18; CHERBONNIER 23-24; DEICHMANN 41.

**Indo-Pacific.**—CASO 18; CLARK 26, 28; CLARK & BOWEN 29; ENGEL, JOHN & CHERBONNIER 48; HAYASAKA 62.

**Polynesian Seas.**—CLARK 25.

**Eastern Pacific.**—TORTONESE 138.

**South Temperate and Sub-Antarctic.**—BERNASCONI 11; DEICHMANN 40; FELL 49, 50, 52, 53.

### GEOLOGICAL

**Pleistocene.**—China, HAYASAKA 59; China and Japan, HAYASAKA & MORISHITA 63, 64.

**Tertiary.**—Australia, FELL 51.

**Pliocene.**—U.S.A., DURHAM 44; China, HAYASAKA 59; HAYASAKA & MORISHITA 63, 64.

**Miocene.**—France, BALLAND 7; China, HAYASAKA 59; HAYASAKA & MORISHITA 63, 64; Japan, NISIYAMA 102; OTUKA 104.

**Oligocene.**—DEFLANDRE-RIGAUD 39; Japan, NISIYAMA 102.

**Eocene.**—DEFLANDRE-RIGAUD 39; China, HAYASAKA 59.

**Cretaceous.**—N. Africa, ARNOULD-SAGET 2; COLLIGNON 30; Central America, COOKE 31; Peru, COOKE 32; Europe, KONGIEL 76; Scotland, MACLENNAN 87; C. America, MÜLLERREID 98; England, WRIGHT & WRIGHT 158.

**Jurassic.**—DEFLANDRE-RIGAUD 39; Italian Somaliland, MACCAGNO 85.

**Permian.**—Australia, TEICHERT 133; Crinoidea Timor, WANNER 154.

**Carboniferous.**—Belgium, DEMANET 42; SCHWARZBACH 123; U.S.A., STRIMPLE 126, 127, 128, 129.

**Devonian.**—U.S.S.R., YAKOVLEV 160.

**Silurian.**—U.S.A., AMSDEN 1.

**Ordovician.**—Crinoid U.S.A., STRIMPLE & WATKINS 130.

## III.—SYSTEMATIC INDEX

### HOLOTHURIOIDEA

*Anapta fallax*, DEICHMANN 40 p. 346.

*Antochirus* gen. n. p. 78 for type *A. loui* sp. n. China, CHANG Contr. Inst. Zool. Peiping 4 1948 pp. 79-80 figs. 21a-c, pl. x figs. 6-8.

*Astichopus multifidus*, CHERBONNIER 24 p. 162 pl. ii figs. 1-25.

*Chiridota fernandensis* p. 348, marenzelleri p. 348, pisanii p. 347, DEICHMANN 40.

*Cucumaria multipes*, CHANG 21 p. 76 fig. 20, pl. x fig. 5.—*C. chiloensis* p. 334, *croeca* p. 331 with var. *crocoides* p. 332, *C. godeffroyi* p. 334, *laevigata* p. 333, *leonina* p. 332, *parra* p. 333, DEICHMANN 40.

*Hedingia planapertura*, DEICHMANN 40 p. 345.

*Holothuria princeps*, CHERBONNIER 24 p. 160 pl. i figs. 1-22.—*H. pardalis*, *patagonicus*, DEICHMANN 40 p. 330.

*Molpadia amorpha* p. 343, *antarctica* p. 342, *musculus* p. 342, DEICHMANN 40.

*Paracaudina chilensis*, DEICHMANN 40 p. 344.—*P. chilensis* var. *ransonnetii*, CHANG 21 p. 81.

*Parocnus cabindaensis* pp. 255-256, *ransoni* pp. 256-257, spp. n. West Africa, CHERBONNIER Bull. Mus. Hist. nat. Paris (2) 21.—*P. cabindaensis* pp. 163-164 pl. ii figs. 26-38, *ransoni*

pp. 164-165 pl. iii figs. 1-18, **spp. n.** West Africa, CHERBONNIER Mém. Inst. R. Sci. nat. Belg. (2) 33.

*Protankyra asymmetrica* p. 86 fig. 23, *bidentata* p. 83 fig. 22, CHANG 21.

*Psolidium convergens* p. 336, *disciformis* p. 337, *dorsipes* p. 336, DEICHMANN 40.

*Psolus antarcticus* p. 339, *patagonicus* p. 339 figs. 1-2, *squamatus* var. *segregatus* p. 340 figs. 3-5, DEICHMANN 40.

*Stichopus mollis*, DAWBIN 37 p. 497 figs. 1-9, 38 p. 524 figs. 1-2.—*S. fuscus*, DEICHMANN 40 p. 329.

† *Synaptites cunninghami* **nom. n.** for *Synapta* sp. Cunningham 1895 Tertiary U.S.A., DEFLANDRE-RIGAUD Bull. Inst. océanogr. Monaco No. 946 p. 10 figs. 25-26; *S. cuvillieri* **cent. n.** Eocene France pp. 3-5 figs. 1-3, *S? irregularis* **cent. n.** Jurassic France p. 10 fig. 14, *Id.*; *S. circularis* p. 6 fig. 14, *eocenus* p. 5 figs. 5-12, *laevigatus* p. 9 fig. 15, *oligocaenicus* p. 9 figs. 18-24, *reniferus* p. 7 fig. 17, *stueri* p. 7 fig. 16, *truncatus* p. 7 fig. 13, *Id.*

*Taeniogyrus contortus*, DEICHMANN 40 p. 348.

*Thyone mexicana* **sp. n.** Gulf of Mexico, DEICHMANN Occ. Pap. Mar. Lab. Baton Rouge La. No. 4 1946 pp. 1-4 fig. 1.—*T. lechleri*, *spectabilis*, DEICHMANN 40 p. 335.

*Trochodata purpurea*, DEICHMANN 40 p. 349.

## ECHINOIDEA

*Abatus bidens* p. 106 fig. 2 (1), *cavernosus* p. 106 fig. 3 (2), *philippii* p. 106 fig. 3 (3), BERNASCONI 11.

† *Acrosalenia* cf. *lamarchi* p. 112, *A. somaliensis* p. 110 figs. 1a-b, pl. i fig. 4, MACCAGNO 85.

*Amphipneustes koehleri*, BERNASCONI 11 p. 104 fig. 2 (3-5).

*Anorthoscutum oregonense major* p. 55 fig. 1D, *oregonense quaylei* p. 57 fig. 2D, pl. i figs. 1, 5, *A. sp.* p. 59 pl. i fig. 7, DURHAM 44.

*Apatopygus recens*, FELL 50 p. 8 pl. i figs. 12-13.

† *Aplospatangus acuminatus*, GILLET 56 p. 71 pl. v figs. 5, a.

*Arachnoides zelandiae*, FELL 50 p. 8 pl. i figs. 6-7.—*A. placenta*, HAYASAKA 60 p. 3 pl. i figs. 2-4, pl. ii figs. 1-3.

*Arbacia dufresnei*, BERNASCONI 11 p. 101 fig. 1 (5).—*A. pustolosa*, REVERBERI 109 p. 65 figs. 1-4.

† *Arbacia monilis*, BALLAND 7 p. 27 fig. 1.

† *Archaeocidaridaris urii*, SCHWARZBACH 123 p. 21 pl. iv figs. 20-21. [Radioles].

† *Astridylpeus integer* p. 115 pl. xv fig. 2, pl. xvi figs. 1-2, *manni* p. 116 pl. xii fig. 2, pl. xiii fig. 1, pl. xiv fig. 1, pl. xv fig. 1, HAYASAKA & MORISHITA 64.

*Austrocidaris canaliculata*, BERNASCONI 11 p. 100 fig. 3 (1).

† *Balanocidaridaris meandrina*, MACCAGNO 85 p. 109 pl. i fig. 3. [Radiolae.]

† *Bothriopneustes orientalis*, MACCAGNO 85 p. 129 fig. 3, pl. i fig. 12.

† *Breynia cordata* pp. 122-124 pl. x fig. 1, pl. xi fig. 1, *testudinaria* pp. 125-126 pl. xi fig. 2, **spp. n.** Pliocene China, HAYASAKA & MORISHITA Acta Geol. Taiwanica 1 1947.—*B. carinata*, HAYASAKA 59 p. 114 pl. iv fig. 4.

*Brisaster moscleyi*, BERNASCONI 11 p. 108 fig. 4 (3-4).

*Brissopsis zelandiae*, FELL 50 p. 9 pl. ii fig. 16.—*B. lyrifera*, VASSEUR & CARLSEN 146 p. 1 fig. 3. [Pluteus.]

*Brissus gigas*, FELL 50 p. 9 pl. ii fig. 17.

† *Brissus* sp. indet.  $\alpha$  p. 110 pl. ii fig. 2, sp. indet.  $\beta$  p. 111 pl. ii fig. 3, pl. iv fig. 3, HAYASAKA 59.

† *Brochopleurus australiae* **sp. n.** Oligocene or Miocene Australia, FELL Mem. nat. Mus. Melbourne 16 pp. 17-19 pl. i.

*Cassidulus pacificus*, CASO 18 p. 348 fig. 5.—*C. infidus*, MORTENSEN 97 p. 67.

*Centrostephanus rodgersii*, FELL 52 p. 343.

*Chorocidaridaris* **gen. n.** for type *C. micca* **sp. n.** Japan, IKEDA Annot. Zool. jap. 20 1941 pp. 85-86 pl. vi figs. 1-8.

† *Clitopygus* with *Dactyloclypeus* **subgen. n.** for *C. wylliei* var. *pentagona* Currie 1925 Jurassic N. Africa, MACCAGNO Mem. Accad. Lincei (8) 1 1947 pp. 126-129 pl. i figs. 11, a, b.

*Clypeaster humilis*, CLARK & BOWEN 29 p. 6 fig. 1.—*C. australasiae*, FELL 52 p. 345.—*C. reticulatus*, HAYASAKA 60 p. 8 pl. i fig. 1.—*C. fervens* var. *hiradicus*, C. *lütkeni*, nummus, *reticulatus* var. *sumdaicus*, MORTENSEN 97 p. 69.

†*Clypeaster japonicus* subsp. *alta* pp. 44–45 pl. ii figs. 2a–b, subsp. *plana* p. 44 pl. iv figs. 3a–b, subspp. n. Pleistocene China, HAYASAKA & MORISHITA Acta Geol. Taiwanica 1 1947; *C. colleti* p. 48 pl. iv figs. 2a–b, cf. *deserti* p. 45 pl. iii figs. 1a–b, *japonicus* p. 42 pl. i figs. 1a–b, pl. ii figs. 1a–b, cf. *reticulatus* p. 50 pl. iv figs. 1a–b, cf. *virescens* p. 47 pl. v figs. 1a–b, Id.—C. sp. indet. cf. *humilis*, HAYASAKA & MORISHITA 64 p. 112 pl. xii fig. 1.

*Clypeaster* (*Oranthus*) *euclastus*, MORTENSEN 97 p. 68.

*Colobocentrotus mertensii*, HAYASAKA 60 p. 29 pl. v fig. 3.

*Conolampas malayana*, MORTENSEN 97 p. 68.

†*Dactyloclypeus* subgen. n. see *Clitopygus*.

†*Dendraster elsmereensis* sp. n. Pliocene U.S.A., DURHAM Amer. J. Sci. New Haven 247 pp. 50–62 fig. 2 F, pl. i figs. 2–4, 6; *coalingensis* p. 52 pl. ii fig. 1, *excentricus* p. 52 figs. 1 B, 2 A, pl. ii fig. 4, *gibbsii* p. 52 figs. 1 C, 2 C, pl. ii fig. 2, Id.

*Echinarachnius gabbii* p. 60, *gabbii kleinpellii* p. 60, *E. merriami* p. 60, *parma* p. 52 figs. 1 A, 2 B, pl. i fig. 8, *vaquerosensis* p. 59, DURHAM 44.

*Echinarachnius* (*Echinarachnius*) *asiaticus* p. 826 pl. xliii fig. 11, *parma* var. *obesus* p. 827 fig. 10, pl. xliii fig. 10, NISIJAMA 102.

†*Echinarachnius* (*Echinarachnius*) *laganolithus* pp. 830–832 fig. 12, pl. xlv fig. 21, pl. xlv figs. 1–9, *microthyroides* pp. 828–829 fig. 11, pl. xlv figs. 17–20. spp. n. Neogene Japan, NISIJAMA Jubilee Publ. Commem. Yabe 2 1940–1.

*Echinarachnius* (*Scaphechinus*) *brevis* p. 843 figs. 37–60, 65, pl. xliii figs. 7–9, *griseus* p. 841 fig. 64, pl. xliii fig. 6, *mirabilis* p. 835 figs. 13–36, pl. xlv figs. 5–6 with forma *japonicus* p. 837 fig. 62, pl. xliii figs. 1, 3, pl. xlv figs. 3–4, forma *mirabilis* p. 837 fig. 61, pl. xliii fig. 2, pl. xlv fig. 1, forma

*scutella* p. 837 pl. xlv fig. 2, and forma *tenuis* p. 839 fig. 63, pl. xliii fig. 5, NISIJAMA 102.

†*Echinarachnius* (*Scaphechinus*) *mirabilis*, HAYASAKA & MORISHITA 64 p. 94 pl. viii figs. 1–2.

†*Echinarachnius* (*Kewia*) *elongatus* pp. 824–826 fig. 9, pl. xlv figs. 13–16, *parvus* pp. 822–823 pl. xlv figs. 7–12. spp. n. Oligocene Japan, NISIJAMA Jubilee Publ. Commem. Yabe 2 1940–1; *nipponicus*, Id. p. 821.

*Echinocardium cordatum*, CHANG 21 p. 72.—*E. australe*, FELL 50 p. 9 pl. ii fig. 15.

†*Echinocorys asymmetricus* fig. 20, *depressus* fig. 18, *pentagonalis* fig. 21, *rectus* fig. 17, *semiglobosus* fig. 19, KONGIEL 76 p. 237.

*Echinocyamus polyporus*, FELL 50 p. 8 pl. ii figs. 19–20.—*E. apicatus* p. 71, *convergens* p. 72, *scaber* var. *conicus* p. 71, MORTENSEN 97.

*Echinodiscus auritus*, HAYASAKA 60 p. 19 pl. iv fig. 1, pl. v fig. 1.—*E. auritus* var. *siamensis*, MORTENSEN 97 p. 72.

*Echinolampas alexandri* var. *forcipulata* p. 68, var. *sibogae* p. 67, MORTENSEN 97.

†*Echinolampas concavus* sp. n. Miocene China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 89–90; *E. jackemonti*, Id. p. 88.—*E.* sp. indet., HAYASAKA & MORISHITA 64 p. 103 pl. ix fig. 2.

†*Echinolampas* (*Miolampas*) *depressus*, HAYASAKA & MORISHITA 64 p. 105 pl. ix fig. 1.

*Echinometra mathaei*, HAYASAKA 60 p. 30 pl. vi figs. 3–4.

*Echinoneus cyclostomus*, HAYASAKA 60 p. 26 pl. vi fig. 2.

†*Echinopygus checcchiai* sp. n. Jurassic Somaliland, MACCAGNO Mem. Accad. Lincei (8) 1 1947 pp. 134–136 fig. 4c, pl. i figs. 14, a–b.

*Encope emarginata*, BERNASCONI 11 p. 103 fig. 5 (1).—*E. wetmorei*, CASO 18 p. 345 figs. 3–4.

*Evechinus chloroticus*, FELL 50 p. 7 pl. i fig. 4.

*Fibularia acuta*, CHANG 21 p. 72 figs. 19 a–g, pl. xi figs. 1–6.



*Fibularia (Fibulariella) acuta, anguipora, oblonga* var. *ambonensis*, MORTENSEN 97 p. 72.

*Goniocidaris umbraculum*, FELL 50 p. 7 pl. i fig. 5.

†*Hagenowia blackmorei* pp. 467–470 figs. 14–16, *infulasteroides* pp. 470–472 figs. 17–18, spp. n. Cretaceous England, WRIGHT & WRIGHT Ann. Mag. Nat. Hist. (12) 2; *rostrata*, ID. p. 462 figs. 7–13.

*Helicoidaris tuberculata*, FELL 50 p. 7 pl. i fig. 2.

†*Hemiaster (Macraster) cascajalensis* sp. n. Cretaceous Peru, COOKE J. Paleont. Menasha Wis. 23 pp. 85–86 pl. xxii figs. 6–11.

†*Hemidiadema mortensi* sp. n. Jurassic Somaliland, MACCAGNO Mem. Accad. Lincei (8) 1 1947 pp. 116–118 pl. i figs. 6, a, b.

*Heterocentrotus mammillatus* p. 16 pl. iii figs. 2, 4, *trigonarius* p. 16 pl. iii fig. 3, HAYASAKA 60.

*Hipponoe variegata*, HAYASAKA 60 p. 30 pl. vi fig. 5.

†*Holcetypus depressus*, MACCAGNO 85 p. 125.

*Holopneustes inflatus*, FELL 52 p. 344.

†*Infulaster excentricus*, WRIGHT & WRIGHT 158 p. 456 figs. 1–6.

*Kewia*, see *Echinarachnius*.

*Laganum depressum*, FELL 50 p. 8 pl. i figs. 10–11.—*L. boninense* p. 70, *depressum* with var. *alienum* and var. *tenu* p. 69, *L. dickersoni* var. *keiense* p. 70, *L. fudsiyama* with var. *africanum* and var. *indicum* p. 70, *L. joubini* var. *formosum* p. 70, MORTENSEN 97.

†*Laganum fudsiyama takunagai* subsp. n. Miocene Japan, Otuka J. Fac. Sci. Imp. Univ. Tokyo Geol. 5 1938 pp. 18–19 pl. ii figs. 22–23.—*L. aff. boschi*, HAYASAKA & MORISHITA 64 p. 97 pl. ix fig. 3.

†Cf. *Lepidesthes caledonica*, DEMANET 42 p. 4 pl. ii fig. 5.

†*Linthia taiwanensis* sp. n. Miocene China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 90–93 pl. i figs. 1a–b, pl. ii figs. 1a–b.

*Loxechinus albus*, BERNASCONI 11 p. 103 fig. 4 (1–2).

*Mellita grantii*, MORTENSEN 97 p. 72.

*Meoma grandis*, CASO 18 p. 351 fig. 6.

†*Merriamaster perrini*, DURHAM 44 p. 55 figs. 1E, 2E, pl. ii fig. 3.

*Metalia townsendi*, CLARK & BOWEN 29 p. 6 fig. 2.

†*Metalia*? sp. indet., HAYASAKA 59 p. 112 pl. v fig. 1.

*Microcyphus maculatus*, HAYASAKA 60 p. 29 pl. v fig. 2.

*Moiria obesa* p. 103 pl. i figs. 2a–c, ? *M. sp.* p. 105 pl. i fig. 3, HAYASAKA 59.

†*Moiropsis depressa* sp. n. Miocene China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 106–109 pl. i figs. 4a–c.

*Nannolampas* with *N. tenera*, MORTENSEN 97 p. 68.

*Notechinus magellanicus*, BERNASCONI 11 p. 101 figs. 1 (2–4).

*Ogmocidaris benhami*, FELL 50 p. 7 pl. ii fig. 18.

*Orthanthus*, see *Clypeaster*.

†*Orthopsis titicacana* sp. n. Cretaceous Peru, COOKE J. Paleont. Menasha Wis. 23 pp. 84–85 pl. xxii figs. 1–5.

*Parapneustes reductus*, BERNASCONI 11 p. 104 fig. 5 (3).

*Peronella hinemoae*, FELL 50 p. 8 pl. i figs. 8–9.—*P. lesueuri*, HAYASAKA 60 p. 24 pl. vi fig. 1.—*P. japonica* p. 71, *keiensis* p. 71, *lesueuri* var. *gadiana* p. 70, *P. oblonga* p. 71, *orbicularis* var. *concava* p. 71, MORTENSEN 97.

†*Peronella* cf. *decagonalis*, HAYASAKA & MORISHITA 64 p. 99 pl. viii fig. 4.

†*Peronella* with subgen. *Peronellites* subgen. n. for type *P. ovalis* sp. n. Miocene China, HAYASAKA & MORISHITA Acta Geol. Taiwanica 1 1947 pp. 101–103 pl. viii figs. 3, 5.

†*Peronellites* subgen. n. see *Peronella*. *Planilampas* with *P. keiensis*, MORTENSEN 97 p. 68.

†Cf. *Plegiocidaris choffati*, MACCAGNO 85 p. 105 pl. i fig. 1 [Radiole.]

†*Porosoma* sp. indet., HAYASAKA 59 p. 86 pl. iv figs. 2a–b.

*Prionocidaris baculosa*, HAYASAKA 60 p. 14 pl. iii fig. 1.

*Proccasidulus malayanus*, MORTENSEN 97 p. 67.

†*Psephochinus* cfr. *myrocypus*, MACCAGNO 85 p. 124 pl. i fig. 10.

*Pseudechinus huttoni*, FELL 50 p. 8 pl. i fig. 3.

†*Pseudocidaritis gortanii* sp. n. pp. 121–122 fig. 1c, pl. i fig. 8, *migliorinii* sp. n. pp. 118–120 fig. 2, pl. i figs. 7, a, Jurassic Somaliland, MACCAGNO Mem. Accad. Lincei (8) 1 1947; cf. *P. grayensis*, Id. p. 120 pl. i fig. 9.

†*Pseudopygus letteroni*, MACCAGNO 85 p. 132 fig. 4a–b, pl. i fig. 13.

†*Pseudosalenia pseudocidaroides*, MACCAGNO 85 p. 113 pl. i fig. 5.

†*Pygurostoma pasionensis* sp. n. Cretaceous Central America, COOKE Amer. Mus. Nov. No. 1422 pp. 1–3 fig. 1.

†*Reticrosalenia somaliensis*, MACCAGNO 85 p. 115.

†*Rhabdocidaritis* cf. *kisombyensis* p. 107 pl. i fig. 2, aff. *mogharensis* p. 106. MACCAGNO 85 [Radioles].

*Scaphechinus* see *Echinarachnius*.

†*Schizaster* (?*Paraster*) *taiwanicus* sp. n. Eocene China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 98–101 pl. ii fig. 4, pl. v figs. 2–5; *S.* (?*P.*) sp. indet., Id. p. 101 pl. ii fig. 5.

†*Scutella bonali* p. 403 fig. 1, *faujasi* var. *armoricana* p. 406 fig. 5, *leognanensis* p. 404 fig. 2, *paulensis* p. 405 fig. 3, *producta* p. 406 fig. 6, *striatula* p. 405 fig. 4, DUVAL 45.

*Sinaechinus* gen. n. for type *S. kawaguchii* sp. n. Recent (& Pliocene) China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 93–96 pl. iii figs. 1–5, pl. iv figs. 1a–c; HAYASAKA Bull. ocean. Inst. Taiwan No. 5 pp. 20–22 pl. iv figs. 1–5.

*Spatangus multispinus*, FELL 50 p. 9 pl. ii fig. 14.

*Sterechinus neumayeri*, BERNASCONI 11 p. 103 fig. 5 (2).

*Stereocidaritis japonica*, CHANG 21 p. 66 fig. 18, pl. i figs. 6–7, pl. x figs. 9–11.

†*Stomechinus pyramidatus*, MACCAGNO 85 p. 122.

*Stomopneustes variolaris*, HAYASAKA 60 p. 30 pl. v fig. 4.

*Strongylocentrotus pulcherrimus*, CHANG 21 p. 71.

*Temnopleurus hardwickii, toreumatiscus*, CLARK 21 p. 70.

†*Tessieria* gen. n. for type *T. senegalensis* sp. n. Cretaceous W. Africa, COLLIGNON Bull. Soc. géol. Fr. (5) 19 pp. 263–268 figs. 1–2, pl. ixa figs. 1–5.

*Toxopneustes roseus*, CASO 18 p. 341 figs. 1–2.

*Tripylaster philippii*, BERNASCONI 11 p. 108 fig. 1 (1).

*Tripylus excavatus*, BERNASCONI 11 p. 106 fig. 2(2).

## ASTEROIDEA

*Acanthaster planci*, HAYASAKA 61 p. 16 pl. iii fig. 2.

*Archaster typicus*, HAYASAKA 61 p. 14 pl. i fig. 5.

*Asterias rollestoni*, CHANG 21 p. 47 figs. 7–8, pl. vi figs. 3–4.

*Asterina regularis*, FELL 49 p. 21 pl. ii fig. C.

*Asterodon miliaris*, FELL 49 p. 21 pl. ii fig. A.

*Astropecten scoparius*, HAYASAKA 61 p. 13 pl. ii fig. 2.—*A. aranciatus*, TORTONESE 137 p. 87 figs. 1–6, pls. i–iv.—*A. bispinosus* pl. ix fig. 4. *platycanthus* pl. ix figs. 1–3, TORTONESE 140 p. 219.

*Astrosole scabra*, FELL 49 p. 23 pl. ii fig. H.

*Bipinnaria setoensis* sp. n. Japan, TOKIOKA Annot. zool. Jap. 21 1942 pp. 152–154 figs. 1–8.

†*Calliderma*? sp., MACLENNAN 87 p. 94 pl. ii.

*Coscinasterias calamaria*, FELL 49 p. 23 pl. ii fig. G.

*Craspidaster hesperus* var. n.?, HAYASAKA 61 p. 12 pl. i figs. 1–3, pl. ii fig. 1.

*Crossaster japonicus*, CHANG 21 p. 44 fig. 5, pl. iv figs. 5–6.

*Ctenopleura ludwigi*, HAYASAKA 61 p. 14 pl. i fig. 4.

*Culcita novaeguineae*, HAYASAKA 61 p. 14 pl. ii fig. 3.

*Diplodontias dilatatus*, FELL 49 p. 21 pl. ii fig. K.

*Dytaster mollis*, CLARK 27 p. 372.

*Henricia lisa* sp. n. North Atlantic, CLARK J. Wash. Acad. Sci. 39 pp. 374-375.—*H. leviuscula* p. 40 fig. 3, pl. iv figs. 1-2, pl. v figs. 1-2 with var. *multispina* p. 41 fig. 4, pl. iv figs. 3-4, pl. v figs. 3-4, CHANG 21.—*H. tumida*, HAYASHI 65 p. 278 fig. 1.

*Hippasteria phrygiana*, CLARK 27 p. 373.

*Linckia laevigata*, HAYASAKA 61 p. 16 pl. iii fig. 1.

*Luidia quinaria* p. 35 pl. i figs. 1-2, pl. ii figs. 1-2, *yessoensis* p. 37 fig. 1, pl. i figs. 3-4, pl. ii figs. 3-5, CHANG 21.

*Mithrodia bradleyi* p. 20 figs. 6-8, pls. v-vi, *clavigera* p. 5 figs. 1-4, pls. i-iii, *fisheri* p. 27 figs. 9-11, pls. vii-viii, *victoriae* p. 18 fig. 5, pl. iv, ENGEL, JOHN & CHERBONNIER 48.

*Nardoa tumulosa*, HAYASAKA 61 p. 15 pl. ii fig. 4.

*Patiria pectinifera*, CHANG 21 p. 38 fig. 2, pl. i fig. 5, pl. iii figs. 1-5.

*Pentagonaster pulchellus*, FELL 49 p. 21 pl. ii fig. B.

*Persephonaster neozelandicus*, FELL 49 p. 21 pl. ii fig. J.

*Psilaster acuminatus*, FELL 49 p. 21 pl. i figs. I, L.

*Sclerasterias mollis*, FELL 49 p. 21 pl. ii fig. D.

*Solaster dawsoni*, CHANG 21 p. 45 fig. 6, pl. vi figs. 1-2.

*Stegnaster inflatus*, FELL 49 p. 21 pl. ii fig. E.

*Stichaster australis*, FELL 49 p. 23 pl. ii fig. F.

## OPHIUROIDEA

*Amphiactis astarte* pp. 38-39 figs. 14c-d, *lycidas* pp. 36-38 figs. 14a-b, spp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195.

*Amphiodia barbarae*, MACGINITIE 86 p. 28 fig. 1.

*Amphipholis japonica*, MURAKAMI 100 p. 19 figs. 1-13.

*Amphioplus cythera* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 29-30 figs. 12a-b.—*A. brachiotictus* sp. n. Ecuador, TORTONESE Boll. Ist. Mus. Zool.

Torino 1948 pp. 151-154 fig.—*A. ancistrotus* p. 54 fig. 11, pl. viii fig. 7, *cyrtacanthus* p. 55 fig. 12, pl. viii figs. 1-6, CHANG 21.

*Amphiura dino* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 27-28 figs. 11a-b; *immira*, Id. p. 28.—*A. vadicola*, CHANG 21 p. 59 fig. 14, pl. ix figs. 3-5.

*Asteroschema ajax* sp. n. pp. 11-12 fig. 3b, *caudatum* var. *granulosum* var. n. pp. 7-9 fig. 2a, *caudatum* var. *obscurum* var. n. pp. 9-10 fig. 2b, *edmondsoni* sp. n. pp. 10-11 fig. 3a, Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195.

*Gorgonocephalus dolichodactylus*, CLARK 25 p. 13.—*G. caryi*, MACGINITIE 86 p. 29 fig. 2.

*Ophiacantha dumosa* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 18-19 figs. 6a-b; *bisquamata*, *prionota*, Id. p. 17.

*Ophiactis lethe* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 34-36 figs. 13a-b; *dyscrita* p. 32, *kröyeri* p. 36, *modesta* p. 33, *savignyi* p. 31, Id.—*O. affinis*, CHANG 21 p. 50 fig. 9, pl. vii figs. 1-2.

*Ophiodesmus degeneri* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 46-48 figs. 17a-b.

*Ophiocela* gen. n. for type *O. elegans* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 13-15 figs. 4a-b.

*Ophiologimus quadrispinus*, CLARK 25 p. 26.

*Ophiomastix asperula*, CLARK 25 p. 48.

*Ophiomitra semele* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 20-23 figs. 8a-b.

*Ophiomoeris inflata* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 15-17 figs. 5a-b.

*Ophiomusium elii* pp. 62-64 figs. 21a-b, *zela* pp. 65-67 figs. 22a-b, spp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195; *lymani* p. 67, *relictum* p. 64, Id.

*Ophiomyxa fisheri* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 5-7 figs. 1a-b.



*Ophiopholis mirabilis*, CHANG 21 p. 52 fig. 10, pl. vii figs. 3-6.

*Ophiophragmus japonicus*, CHANG 21 p. 57 fig. 13, pl. ix figs. 1-2.

*Ophioplax melite* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 42-44 figs. 16a-b.

*Ophioplinthaca athena* sp. n. pp. 23-24 fig. 9, *clothilde* sp. n. pp. 24-26 figs. 10a-b, Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195.

*Ophiothamnus otho* sp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 19-20 figs. 7a-b.

*Ophiothrix lepidus hawaiiensis* subsp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195 pp. 41-42 figs. 15a-b; *O. demessa*, Id. p. 39.—*O. marenzelleri*, CHANG 21 p. 61 fig. 15, pl. ix figs. 6-8.

*Ophiozonella depressa*, CLARK 25 p. 68.

*Ophiura fisheri* pp. 59-60 figs. 20a-b, *monaria* pp. 55-57 figs. 18a-b, *ursula* pp. 57-59 figs. 19a-b, spp. n. Hawaiian Islands, CLARK Bull. Bishop Mus. Honolulu No. 195; *kinbergi* p. 55, *ponderosa* p. 60, Id.—*O. kinbergi* p. 63 fig. 16, pl. x figs. 1-2, *sarsii* p. 65 fig. 17, pl. x figs. 3-4, CHANG 21.

*Stegophiura sculpta*, MURAKAMI 101 p. 67 figs. 1-9.

### CRINOIDEA

†*Acrocrinus elegans* pp. 903-904 fig. 2, pl. i figs. 4-6, *pumpkinsensis* pp. 900-902 fig. 1, pl. i figs. 1-3, spp. n. Carboniferous U.S.A., STRIMPLE Amer. J. Sci. New Haven 247.

†*Alcimocrinus ornatus* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 346-347 pl. xxxiii figs. 1-7.

†*Austinocrinus solignaci*, ARNOULD-SAGET 2 p. 41 pl. iv figs. 1-6.

†*Basleocrinus striatigranulatus*, WANNER 154 p. 40.

*Bathyrinus aldrichianus*, CLARK 27 p. 377.

†*Cadocrinus variabilis*, WANNER 154 p. 5 figs. 1-7, pl. i figs. 1-2.

†*Calceolispongia abundans* pp. 54-59 pl. i figs. 2, 7, 12, 21-22, pl. vi figs. 21-22, pl. viii fig. 2, pl. ix, pl. x figs. 1-10, 13-38, pls. xi-xii; *acuminata* pp.

59-60 pl. iii figs. 8-35; *barrabiddiensis* pp. 60-61 pl. iii figs. 1-7, *digitata* pp. 61-63 pl. ii figs. 1-45; *elegantula* pp. 63-71 pl. i figs. 1, 8, 13, 25, pl. v figs. 14-16, pl. vi figs. 1-20, 23-80, pl. vii, pl. viii fig. 1; *multiformis* pp. 75-80 pl. i figs. 3, 5-6, 10-11, 14-15, 17-18, 23-24, pls. xiii-xvi; *robusta* pp. 80-83 pl. xxiv, *rotundata* pp. 83-85 pl. i fig. 16, pl. iv figs. 25-42, pl. v figs. 1-13; *rubra* pp. 85-89 pl. x figs. 11-12, pl. xvii, pl. xviii figs. 1-36, 44-47; *spectabilis* pp. 89-92 pl. i figs. 4, 9, pl. xviii figs. 37-43, 48, pls. xix-xx; *spinosa* pp. 92-93 pl. ii figs. 46-72; *truncata* pp. 93-95 pl. iii figs. 36-56, pl. iv figs. 1-21; spp. n. Permian Australia, TEICHERT Mem. geol. Soc. America 34; *hindei* p. 71 pls. xxi-xxii, pl. xxiii figs. 1-12, 22-31, sp. ind. A p. 95 pl. i figs. 19-20, pl. xxiii figs. 13-16, sp. ind. B p. 96 pl. xxiii figs. 17-18, sp. ind. C p. 96 pl. xxiii figs. 19-21, sp. ind. D p. 96, sp. ind. E p. 97 pl. iv figs. 22-24, sp. ind. F p. 97 pl. ii figs. 73-76, Id.

†*Calycocrinus curvatus subturbinatus*, C. major, YAKOVLEV 159 p. 265 fig. 1.

*Comanthus japonicus*, DAN & DAN 36 p. 55 pl. xiv.

*Compsometra serrata*, CHANG 21 p. 88 fig. 24, pl. xi figs. 7-9.

†*Delocrinus aristatus* pp. 336-337 pl. xxxi figs. 18-21, *armatura* p. 336 pl. xxxi figs. 3, 6, *brownvillensis* pp. 340-341 pl. xxxii figs. 1-4, *ponderosus* pp. 341-342 pl. xxxii figs. 5-8, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.—*D. subhemisphericus*, STRIMPLE 128 p. 123 pl. iv figs. 8-15.—*D. ? malayanus*, WANNER 154 p. 31.

†*Ethelocrinus ardmorensis* pp. 329-330 pl. xxx figs. 9, 12, 15, *iatani* pp. 343-344 pl. xxxii figs. 9-11, *magnus* pp. 330-331 pl. xxx figs. 1, 3-4, 6, *peridous* pp. 331-332 pl. xxx figs. 11, 13-14, 16, *sphaeri* pp. 328-329 pl. xxix figs. 4-6, 9, *variabilis* pp. 332-333 pl. xxix figs. 8, 10-11, *watkinsi* pp. 326-328 fig. 1, pl. xxxi figs. 10, 17, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.

†*Graphiocrinus ovoides* pp. 19-21 pl. i figs. 20-25, *subamplior* pp. 18-19 pl. i figs. 17-19, spp. n. Permian Timor, WANNER Palaeontographica Stuttgart

Suppl. 4 5 1; *amplior* p. 17 pl. i fig. 16, *pumilus* p. 14 figs. 8-10, pl. i figs. 9-15, *quinquelobus* p. 28 fig. 12, pl. ii figs. 18-21, *verbeeki* p. 12 pl. i figs. 3-8, Id.

†*Graphiocrinus* ? *depressus* var. *labiosa* pp. 23-24 pl. ii figs. 5-7, *excavatissimus* var. *ornata* pp. 25-26 pl. ii figs. 9-11, var. n. Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1; *G.?* *beyrichi* p. 24, *crassus* p. 26, *declivis* p. 27, *depressus* p. 21 pl. i figs. 26-27, pl. ii fig. 1, cf. *depressus* p. 22 pl. ii figs. 2-4, *excavatissimus* p. 24 pl. ii fig. 8, *rotundatus* p. 27 fig. 11, pl. ii fig. 17, *rugosus* p. 26 pl. ii figs. 12-16, *timoricus* p. 29 pl. ii figs. 22-27 with var. *spinosa* p. 31, Id.

†*Hybocrinus crinerensis* sp. n. Ordovician U.S.A., STRIMPLE & WATKINS Amer. J. Sci. New Haven 247 pp. 132-133 pl. i figs. 4-8.

†*Jaekelocrinus* gen. n. for type *J. bashkiricus* sp. n. Devonian U.S.S.R., YAKOVLEV J. Paleont. Menasha, Wis. 23 p. 435 figs. 1a-d.

†*Laccocrinus* gen. n. for type *Basleoocrinus scrobiculatus* Wanner 1924, WANNER Palaeontographica Stuttgart Suppl. 4 5 1 pp. 10, 55.

†*Lecanocrinus pisiformis*, AMSDEM 1 p. 74 pl. xii figs. 18-20.

†*Lecythiocrinus fusiformis* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 338-339 pl. xxxi figs. 11, 13-14.

†*Lopadiocrinus brouweri* p. 51 figs. 14-15, pl. iii figs. 26-28, *granulatus* p. 50 pl. iii figs. 23-25, WANNER 154.

†*Malaocrinus azygous* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 337-338 pl. xxxi figs. 4, 8-9, 12.

†*Mooreocrinus bowsheri* sp. n. Carboniferous U.S.A., STRIMPLE Amer. J. Sci. New Haven 247 pp. 130-131 pl. i figs. 1-3.—*M. meadowensis* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 344-345 pl. xxxii figs. 12-14.

†*Myelodactylus extensus*, AMSDEN 1 p. 78 pl. xii fig. 17.

†*Parabursacrinus* diagnosis and key to spp. p. 32, *P.?* *gracilis* sp. n. p. 38 fig. 13, pl. iii figs. 8-9, *P. magnificus*

var. *granulata* var. n. pp. 35-36 pl. iii figs. 1-3, Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1; *P. magnificus* p. 34 pl. ii figs. 28-29, *pyramidatus* p. 36 pl. iii figs. 4-7, Id.

†*Paradelocrinus iolaensis* sp. n. Carboniferous U.S.A., STRIMPLE Geol. Mag. London 86 pp. 124-125 fig. 1a, pl. iv figs. 5-7.—*P. cranei* p. 324 pl. xxix figs. 1-3, 7, *disculus* pp. 325-326 pl. xxxi figs. 15-16, *regulatus* p. 325 pl. xxix figs. 13, 15, 17, pl. xxx figs. 2, 5, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.

†*Paraplasocrinus*, WANNER 154 p. 49.

†*Parastachyocrinus* gen. n. for type *Erisocrinus malaianus* Wanner 1924 Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1 pp. 42-45 pl. iii figs. 10-17; *P. inflatus* sp. n. p. 46 pl. iii figs. 20-21, *malaianus* var. *ornata* var. n. pp. 45-46 pl. iii figs. 18-19, Permian Timor, Id.

†*Permiocrinus* gen. n. for type *P. immaturus* sp. n. Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1 pp. 53-54 fig. 16, pl. iii figs. 29-30.

†*Pisocrinus campana* p. 76 pl. xii figs. 12-13, *quinquelobus* p. 77 pl. xii figs. 14-16, *tennesseensis* p. 78 pl. xii figs. 10-11, AMSDEN 1.

†*Plaxocrinus dornickensis* pp. 333-334 fig. 2?, pl. xxx figs. 7-8, 10, *puteus* pp. 335-336 pl. xxxi figs. 1-2, 5, 7, *tumulosus* pp. 334-335 pl. xxix figs. 12, 14, 16, 18, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.

†*Poteriocrinidae* gen. ind., sp. n. ind., WANNER 154 p. 54 pl. iii fig. 31.

†*Prolobocrinus permicus*, WANNER 153 p. 83 figs. 1-2.

†*Prophyllocrinus dentatus*, P. sp., YAKOVLEV 159 p. 265 fig. 1.

†*Roemerocrinus turbinatus*, WANNER 154 p. 4.

†*Stuartwellerocrinus argentinei* sp. n. Carboniferous U.S.A., STRIMPLE Geol. Mag. London 86 pp. 125-126 fig. 1b, pl. iv figs. 1-4.—*S.* diagnosis and key to spp. p. 47, *S. pusillus* p. 48 pl. iii fig. 22, WANNER 154.

†*Thalamocrinus ovatus*, AMSDEN 1 p. 80 pl. xii figs. 8-9.

†*Ulrichicrinus chesterensis* sp. n.  
Carboniferous U.S.A., STRIMPLE Palae-  
ontographica Americana 3 pp. 347-348  
pl. xxxiii figs. 8-11.

†**MACHAERIDIA**

[Vacant.]

†**CYSTIDEA**

*Tetracystis bifarius* sp. n. Silurian  
U.S.A., AMSDEN Peabody Mus. Nat.  
Hist., Yale Univ. Bull 5 pp. 81-82 fig.  
28, pl. xii figs. 1-4.

†**CARPOIDEA**

[Vacant.]

†**EDRIOASTEROIDEA**

[Vacant.]

†**BLASTOIDEA**

*Pentremites godoni* alpha and beta,  
BURMA 17 p. 95.

*Troosticrinus reinwardti*, AMSDEN 1  
p. 82 fig. 29, pl. xii figs. 5-7.